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## SOCIETY AFFAIRS

### SOCIETY BADGE

So many members have expressed a desire for the smaller association badge, about five-eighths of an inch in diameter, that the Secretary has obtained a supply, which can be had for a small sum.

### CANADIAN SECTION

A meeting of the Canadian Section was held at the King Edward Hotel, Toronto, Ont., on February 4, 1921, the chairman of the section, Alexander Milne, presiding.

Gen. C. H. Mitchell, dean of the Faculty of Applied Science of the University of Toronto, introduced as the first speaker, outlined briefly the vital importance of water in community life and the great advances in technical and scientific knowledge during the last twenty years which make it possible to furnish safe supplies at reasonable cost even in congested districts. As a result of this scientific and technical progress, has come the need of special education for the men who look after the quality of public water supplies.

Dr. John W. S. McCullough, chief Provincial health officer of Ontario, introduced to speak on the relation of water supplies to the public health, stated that it is now believed goitre is among the diseases due to some defect in water supplies. Lead poisoning was mentioned as another disease due sometimes to defective water supply, but not of a bacterial character. The larger part of his address related to typhoid, cholera and dysentery, and the precautions taken against their spread by contaminated water supplies. As showing the difficulty of overcoming ignorant opposition to good water supplies needed to prevent the transmission of such diseases, Dr. McCullough referred to an experience of an American health officer in the Philippines. In his district the natives drank water infected with amoeba causing dysentery. He sank several artesian wells which gave a wholesome supply, but the natives refused to drink it because the water came from the neighborhood of Hell. Some of these natives were afflicted with hookworm and a particu-

larly bad case was treated with thymol and recovered. This case was given the well water, which the natives knew, but they did not know about the thymol. The cure was attributed by them to the artesian water, which immediately became popular.

In the Province of Ontario, there are rather strict public health regulations regarding new water and sewerage works, and the plans for such works must be approved by the provincial health officer before work can be done. Last year over \$7,000,000 worth of such work was approved. One interesting feature of the public health work has been the general improvement in health observed where a good quality of water supply is uninterruptedly maintained.

Fire hydrant troubles were discussed informally by A. L. Dobbin, of Peterboro, Ont. The mains there were laid with a minimum cover of 5 feet, but in regrading the streets the mains were sometimes left with only 3 feet cover. During very cold weather there was no trouble with freezing of the mains, but a great deal of trouble was experienced with hydrants freezing below the barrel. The hydrants are all in gravel, without ground water. A remedy for the freezing has been to connect a 45-degree bend to the main, then put in a length of straight pipe on a 45-degree slope, attach a 45-degree bend to the bottom of this pipe and run the hydrant branch, with a gate on it, from this bend to the hydrant. The latter is supported on a concrete box 24 inches square and 3 feet high, with the valve of the hydrant  $7\frac{1}{2}$  feet below the surface of the ground. In some cases a wooden box was placed around the base of the hydrant and a steam pipe run down to it from the surface. By turning steam through the pipe to the box no trouble with freezing has been experienced in the coldest weather.

The subject was discussed by Messrs. Proctor, Diven, Harris, Randall, Wynne-Roberts, Dallyn, Storey, Milne and Knight.

A paper on "Development of the F. M. Double Check Valve as a Safeguard for Public Water Supplies" was presented by H. A. Burnham and discussed by Messrs. Wynne-Roberts, Diven, Dallyn, Harris, Powell, Scofield, Fairchild, Fuller, Buchanan, Gore, Miller, Hiller, Milne and Archibald. At the close of the discussion it was voted that a committee of the Section should be appointed to co-operate with the Provincial Board of Health in drafting regulations covering all physical connections between a municipal water works system and any outside source of water supply. The acting chair-

man, Mr. Dallyn, appointed Mr. Powell of Toronto, Mr. Fuller of Chatham, Mr. Dobbin of Peterboro, Mr. Gray of Hamilton and Mr. Milne of St. Catherines members of this committee.

## ILLINOIS SECTION

The Illinois Section held a joint meeting with the Iowa Section at Hotel LaSalle, Chicago, on March 23-24. This was the thirteenth annual meeting of the Illinois Section, but 13 did not prove to be a number of ill omen, for the attendance was about a hundred.

In addition to the reports of the officers, the following papers were presented:

"Hydrogen-Ion Concentration; What It Is," by R. Edman Greenfield, chemist of the State Water Survey, Urbana, Ill.

"Operation of the Evanston and Whiting Filters," by S. A. Greeley, consulting engineer, Chicago.

"Fixing of Rates for Public Utilities by Contract," by Walter A. Shaw, formerly a member of the Illinois Public Utility Commission.

"Operating a Water Works Plant under State Supervision," by C. M. Ross, superintendent, Cairo Water Company.

"Impounding Water at Bloomington," by D. H. Maxwell, assistant engineer, Alvord & Burdick, Chicago.

"The Iowa Bunch—How They Do It," by C. R. Henderson, manager, Davenport Water Company.

"What a President-Elect Thinks About," by Col. Edward Bartow, President-elect, American Water Works Association.

"Retrospect and Glimpse of the Future of the Water Supply of Chicago," by John Ericson, consulting engineer, Chicago.

"Down the Main Drainage Canal by Movie," by Langdon Pearse, sanitary engineer, Sanitary District of Chicago.

During the meeting the members and guests were given an opportunity to visit the Chicago Avenue, Lake View and Mayfair pumping stations. The City of Chicago was the host on this occasion and provided the automobiles for the visit.

The following officers were elected for the following year:

Chairman, John W. Alvord, consulting engineer, Chicago.

Vice-chairman, Henry Ringness, Peoria Water Company, Peoria, Ill.

Treasurer, H. E. Keeler, Chicago, Ill.

Trustee, A. M. Buswell, chief, State Water Survey, Urbana, Ill.

The above officers reappointed G. C. Habermeyer, Urbana, as secretary.

## NEW YORK SECTION

A meeting was held at the Hotel McAlpine on February 16 at which representatives of makers of trenching machines explained the operation of such apparatus. Both lantern slides and moving pictures were used for illustrating the remarks, and there was a brief discussion.

## ADDITIONS TO MEMBERSHIP

*Active Members*

J. G. Archibald, Superintendent Water Works System, Woodstock, Ont.

John G. Bailey, Superintendent Water Distribution, Engineer building, Main and Orange Streets, Jacksonville, Fla.

Ralph D. Bates, Chemist, Filter Plant, Clarksburg, W. Va.

J. F. Bradley, Chief Engineer and Bacteriologist, R. F. D. 8, Valparaiso, Ind.

Edward Brown, Superintendent Water Works, Eau Claire, Wis.

Egbert D. Case, Vice-President Pitometer Company, 50 Church Street, New York, N. Y.

Leonard Clarke, District Manager, Box 666, Vancouver, Wash.

O. E. Clemens, Manager Water Sales, Spring Valley Water Company, 375 Sutter Street, San Francisco, Calif.

Edward Drake, Civil Engineer, New Bedford, Mass.

Almon L. Fales, Consulting Engineer, 14 Beacon Street, Boston, Mass.

T. E. Ferris, Chairman Water Commissioners, Niagara Falls, Ont.

W. S. Finlay, Jr., Vice President American Water Works and Electric Company, 50 Broad Street, New York.

Geo. H. Finneran, Superintendent Water Service, 710 Albany Avenue, Boston, Mass.

William Flannery, Mechanical Engineering Division, Department Water Supply, Gas and Electricity, 9 Park Avenue, Brooklyn, N. Y.

Ole Forsberg, Chemist, Oliver Iron Mining Company, Hibbing, Minn.

G. C. Francis, Superintendent Sprinkler Risk Department, Canadian Fire Underwriters Association, Toronto, Ont.

Alexander Grant, Civil Engineer, 6 Queensgate, Inverness, Scotland.

Norman J. Goebel, B.Sc., Water Works Engineer, City Hall, Oshawa, Ont.

Charles R. Gow, Engineer and Contractor, 25 Montview Street, West Roxbury, Mass.

H. J. Harder, City Engineer, 692 Fourteenth Avenue, Paterson, N. J.

Charles D. Howard, Chemist, State Board of Health, Concord, N. H.

Alexander Hutchinson, C. E., Drummond, McCall and Company, P. O. Box 660, Montreal, P. Q.

Will A. Hutchins, Secretary and Superintendent, 196 Van Buren Street, Freeport, Ill.

C. E. Inman, Commissioner and Superintendent Water Works, Warren, O.

C. A. Landback, President Board Water Commissioners, 186 Market Street, Perth Amboy, N. J.

John V. Lewis, Engineer in Charge, Sewage Disposal Works, 4 Nott Terrace, Schenectady, N. Y.

Daniel F. McCarthy, Manager Lawrence Park Realty Company, Bronxville, N. Y.

Frederick G. Merckel, Sanitary Engineer, Wallace & Tiernan Co., 707 Commerce Building, Kansas City, Mo.

F. McArthur, City Engineer, Guelph, Ont.

Geo. H. Mitchell, Superintendent Water Works, City Hall, Toronto, Ont.

Harvey T. Munn, Hydraulic Engineer, National Board of Fire Underwriters, 76 William Street, New York, N. Y.

E. Fred Muser, Superintendent Clear Springs Water Co., Post Office Building, Catasauqua, Pa.

Robert Harrison Myers, Public Utility Manager, Stratford, Ont.

Edward M. Proctor, Consulting Engineer, 20 Rosemount Avenue, Toronto, Ont.

Alex. G. Reisweber, Superintendent N. F. Division, Western New York Water Company, 401 Elderfield and Hartshorn Building, Niagara Falls, N. Y.

Edwin G. Reynolds, Jr., Civil Engineer, New Rochelle Water Company, 514 Main Street, New Rochelle, N. Y.

James H. Reynolds, Assistant Superintendent Water Works, 66 Highland Avenue, Lowell, Mass.

Arthur T. Safford, Consulting Engineer, Proprietors of Locks and Canals, 66 Broadway, Lowell, Mass.

W. B. Savage, Superintendent Water Works, Knoxville, Iowa.

William Scott, Assistant Superintendent Filtration Plant, Centre Island, Toronto, Ont.

Frank J. Schrieber, Chief Inspector Bureau of Water, Buffalo, N. Y.

John J. Sharon, Assistant to Manager, Spring Valley Water Company, 375 Sutter Street, San Francisco.

George M. Shepard, Consulting Engineer with Louis P. Wolff, 1000 Guardian Life Building, St. Paul, Minn.

Alfred E. Skinner, District Manager, Pitometer Co., 1324 East 26th Street, Kansas City, Mo.

Spencer W. Stewart, President Ambursen Construction Company, 186 Fifth Avenue, New York, N. Y.

Henry A. Symonds, Consulting Hydraulic Engineer, 75 Crofton Road, Waban, Mass.

Sturgis H. Thorndike, Consulting Engineer, 15 Beacon Street, Boston, Mass.

William John Turnbull, Chief Engineer and Master Mechanic, State Farm, Mass.

Charles D. Vail, Railway and Hydraulic Engineer, Public Utility Commission, Denver, Colo.

Lewis Dewar Walker, Water Works Engineer, Canadian Fire Underwriters Association. Excelsior Life Building, Toronto, Ont.

S. W. Webb, District Manager, Consumers Power Company, Cadillac, Mich.

James E. Williamson, Consulting Engineer, 39 Cortlandt Street, New York.

#### *Corporate Member*

Borough of Totowa, N. J.

#### *Associate Members*

Ambursen Construction Company, Inc., 186 Fifth Avenue, New York.

Art Concrete Works, P. O. Box. 417, Pasadena, Cal.

Drummond, McCall & Company, Ltd., Montreal, P. Q.

Leslie R. Milford, Laboratory Manager, Solvay Process Company, Syracuse, N. Y.

M. E. Mutchler, Sales Manager, Sterling Engine Company, Buffalo, N. Y.

Payne Dean, Limited, 103 Park Avenue, New York, N. Y.

## DEATHS

George D. Westover, Cadillac, Mich., died April 24, 1920.

Robert Albert McKim, New York, died May 14, 1920.

L. E. Murphy, Jacksonville, Fla., died August 28, 1920.

Jerry O'Shaughnessy, Columbus, Ohio, died January 28, 1921.

William A. Hostetler, Superintendent Iowa City Water Works,  
Iowa City, Iowa, died, February 1921.

F. W. Shepperd, New York, N. Y., died February 8, 1921.